

PM  
14 Aug 87  
Pittsburg, PA

file copy



Westinghouse  
Electric Corporation  
ENG/MG:DSB:87-089

Resource Energy Systems  
Division

Cost Building  
2400 Ardmore Boulevard  
Pittsburgh Pennsylvania 15221  
(412) 636 5800  
WIN 261 5800

DER

AUG 18 1987

BAQM

August 13, 1987

Clair Fancy  
Florida DER  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32301

Dear Clair:

We have been talking recently with Barry Andrews and Bill Thomas of the Florida DER concerning the Bay County Resource Recovery Facility. Permit applications were submitted to your office in March 1984 to obtain permission to construct a resource recovery facility consisting of 2 combustor/boiler trains capable of processing 255 TPD MSW each (510 TPD total). The original application stated that the likely total waste to be processed at the facility would be 300 to 350 TPD MSW and 135 to 178 TPD wood waste. These values were based on the guaranteed amount of MSW that was available in Bay County and from the local waste haulers. The facility maximum rated capacity (MCR) is 510 TPD MSW and it appears that additional MSW is now available from adjacent counties so that this facility could now operate at the maximum rate.

The emission compliance test report and a separate emission factor report for SO<sub>2</sub>, NO<sub>x</sub>, HCl, and CO emissions were mailed in late July to Tom Moody and Bill Thomas. These reports indicate that the facility is operating in compliance with the permit conditions at its maximum rated capacity.

Florida DER permit numbers AC 03-84703 and AC 03-84704 state that the facility can process a maximum of 350 TPD MSW along with 135 TPD wood waste. The County had hoped to be permitted to operate the facility at the maximum capacity once the waste was available. Now, because of the recent availability of MSW, the facility would like to obtain permission to burn 510 TPD MSW and operate the facility continuously at this rate.

If you have any questions, please call me at (412) 636-5806.

Sincerely,



David S. Beachler, Manager  
Environmental & Quality Engineering

/tlb  
0675MM-087E-2

cc: Barry Andrews, Florida DER  
Bill Thomas, Florida DER  
Tom Moody, Florida DER Pensacola Office  
Greg Pennington, Bay County Resource Recovery Facility

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DM  
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August 13, 1987

Clair Fancy  
Florida DER  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32301

State Permit: AC 03-84703 & 84704  
PSD #: PSD-FL-103

Dear Clair:

We have been talking recently with Barry Andrews and Bill Thomas of the Florida DER concerning the Bay County Resource Recovery Facility. Permit applications were submitted to your office in March 1984 to obtain permission to construct a resource recovery facility consisting of 2 combustor/boiler trains capable of processing 255 TPD MSW each (510 TPD total). The original application stated that the likely total waste to be processed at the facility would be 300 to 350 TPD MSW and 135 to 178 TPD wood waste. These values were based on the guaranteed amount of MSW that was available in Bay County and from the local waste haulers. The facility maximum rated capacity (MCR) is 510 TPD MSW and it appears that additional MSW is now available from adjacent counties so that this facility could now operate at the maximum rate.

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DER  
AUG 17 1987  
BAQM

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David S. Beachler, Manager  
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/tlb  
0675MM-087E-2

cc: <Barry Andrews, Florida DER  
Bill Thomas, Florida DER  
Tom Moody, Florida DER Pensacola Office  
Greg Pennington, Bay County Resource Recovery Facility

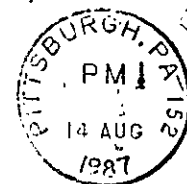
copied: CHF/BT

Wayne Aronson-EPA }  
Pradeep Raval } 8/17/87 (mr)  
Barry Andrews }

Westinghouse  
Electric Corporation

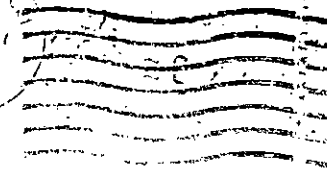
Resource Energy Systems  
Division

Cost Building  
2400 Ardmore Boulevard  
Pittsburgh PA 15221



AUG 14 87

PA

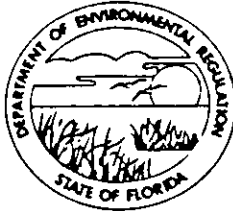


Barry Andrews  
Florida. DER  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32301



STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

NORTHWEST DISTRICT  
160 GOVERNMENTAL CENTER  
PENSACOLA, FLORIDA 32501-5794



BOB MARTINEZ  
GOVERNOR  
DALE TWACHTMANN  
SECRETARY  
ROBERT V. KRIEDEL  
DISTRICT MANAGER

August 11, 1987

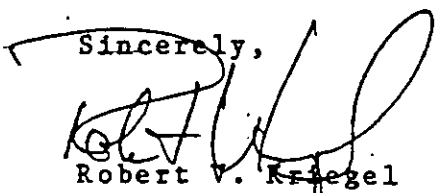
Honorable Ron Wood  
Chairman, Calhoun County Board  
of County Commissioners  
425 East Central Avenue  
Blountstown, Florida 32424

Dear Chairman Wood:

Your Central Landfill does not meet the State's new requirements for the operation of landfills and we have executed an agreement with the county outlining corrective actions and a schedule. We are concerned about your present status and the likelihood that you will not be able to meet these standards in the near future. However, there are alternatives. In example, Bay County's new Resource Recovery Facility (a refuse to energy plant) may be able to handle up to 510 tons per day of Municipal Solid Waste (MSW). At present, Bay County is providing only about 325 tons per day and thus could handle an additional 185 tons per day in out-of-county waste. The County is actively seeking additional waste sources; I understand the County estimates a tipping fee ranging from \$22 to \$28 per ton at present. Similarly, Timber Energy is examining the availability of MSW for a facility they are considering.

We suggest that you seriously consider any available alternatives. Some may be of mutual benefit to both parties, considering the rising costs of landfill operations. Your having given these alternatives serious consideration may also help you in the event the Department or other parties have to institute further enforcement proceedings against your non-complying solid waste operations.

Sincerely,

  
Robert V. Kriegel  
District Manager

RVK/rkf

cc: ~~\_\_\_\_\_~~



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

DER  
AUG 17 1987

AUG 6 1987

BAQM

OFFICE OF  
SOLID WASTE AND EMERGENCY RESPONSE

Dear Sir or Madam:

The Office of Solid Waste and Emergency Response, Office of Air and Radiation, and Office of Research and Development recently concluded their integrated study of air emissions from municipal waste combustion facilities. The study evaluated emissions of more than 15 pollutants, effects of those emissions on health and the environment, and control techniques capable of controlling those emissions.

A report discussing the findings of the study was submitted to Congress on July 1. I have enclosed a copy for your reference. A full set of the technical background documents supporting the study have been provided to the Air Management Division in your EPA Regional Office. Because of their size and our limited ability to reproduce them, we are unable to forward a full set of these documents to you. Should you be unable to locate copies through the Regional Office, please let me know.

The study is available to the public through the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA, 22161 (phone 703-487-4650). I have enclosed a list of NTIS numbers and prices for the documents. The prices listed include sending the documents by fourth-class mail, which may take two to three weeks. For an additional charge, NTIS will send documents by first-class mail, DHL courier, or, if the recipient has an account, by Federal Express.

Should you have any questions about the report, you may call Stephen Greene of my staff at (202) 382-4664.

Sincerely,

A handwritten signature in cursive script that reads "Joseph S. Carra".

Joseph S. Carra  
Acting Director  
Waste Management Division

Enclosures



DEPARTMENT OF ENVIRONMENTAL REGULATION

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Initial

Date

2.

Initial

Date

3.

Initial

Date

4.

Initial

Date

REMARKS:

Ardobm Society  
 marketing results  
 of testing.

Jeffrey Palgut  
 247 N. Highway 22A  
 PC, FL 32404

formal EPA policy  
 risk assessment

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

DATE

PHONE

MUNICIPAL WASTE COMBUSTION STUDY

DOCUMENT NUMBERS AND PRICES

TITLE	EPA NUMBER	NTIS NUMBER	PRICE
Municipal Waste Combustion Study: <u>Report to Congress</u>	EPA/530-SW-87-021A	PB87-206074	\$18.95
Municipal Waste Combustion Study: Emissions Data Base for Municipal Waste Combustors	EPA/530-SW-87-021B	PB87-206082	\$30.95
Municipal Waste Combustion Study: Combustion Control of Organic Emissions	EPA/530-SW-87-021C	PB87-206090	\$24.95
Municipal Waste Combustion Study: Flue Gas Cleaning Technology	EPA/530-SW-87-021D	PB87-206108	\$13.95
Municipal Waste Combustion Study: Costs of Flue Gas Cleaning Technologies	EPA/530-SW-87-021E	PB87-206116	\$18.95
Municipal Waste Combustion Study: Sampling and Analysis	EPA/530-SW-87-021F	PB87-206124	\$18.95
Municipal Waste Combustion Study: Assessment of Health Risks Associated with Exposure to Municipal Waste Combustion Emissions	EPA/530-SW-87-021G	(not yet available)	
Municipal Waste Combustion Study: Characterization of the Municipal Waste Combustion Industry	EPA/530-SW-87-021H	PB87-206140	\$13.95
Municipal Waste Combustion Study: Recycling of Solid Waste	EPA/530-SW-87-021I	PB87-206157	\$13.95

*for Audubon  
Society*

DEPARTMENT OF ENVIRONMENTAL REGULATION

<b>ROUTING AND TRANSMITTAL SLIP</b>	ACTION NO
	ACTION DUE DATE
1. TO: (NAME, OFFICE, LOCATION) <i>Patty</i>	Initial
	Date
2.	Initial
	Date
3.	Initial
	Date
4.	Initial
	Date

REMARKS:  
*I got a hold of Palget and told him we would send them the permit and I would meet with Audubon Society if they requested*

INFORMATION	
<input type="checkbox"/>	Review & Return
<input type="checkbox"/>	Review & File
<input type="checkbox"/>	Initial & Forward
DISPOSITION	
<input type="checkbox"/>	Review & Respond
<input type="checkbox"/>	Prepare Response

*Print name below*

*Jeffrey Palget  
 904/763-4611*

*Jackie Kalk  
 904/785-0535*

*at Palget's  
 decision  
 about  
 having  
 hearing?*



File Copy

Westinghouse  
Electric Corporation  
ENG/MG:DSB:87-064

Resource Energy Systems  
Division

Coast Building  
2400 Ardmore Boulevard  
Pittsburgh Pennsylvania 15221  
(412) 636 5800  
WIN 261 5800

July 21, 1987

DER

AUG 3 1987

BAQM

Mr. Tom Moody  
Florida Department of Environmental Resources  
Northwest District  
160 Government Center  
Pensacola, FL 32501

Dear Mr. Moody:

Enclosed are two copies of the Emission Compliance Test Report for the Bay County Resource Recovery Facility in Panama City, Florida. The tests were conducted on May 12-14 and June 4-5, 1987. Mr. Bert Lent of the Panama City office of the DER observed some of the tests conducted during this test program. The results of the tests show that the facility operated in compliance with the emission limits given in Permits AC-03-84703 and AC-0384704.

Tests were conducted while the combustor-boilers were operating at full-load conditions, processing MSW at a rate of approximately 255 tpd per train (510 tpd total).

In addition, tests were conducted during April and May to measure HCl, SO<sub>2</sub> and NO<sub>x</sub> concentration levels. These emission levels are given in the Bay County Emission Factors Report that is also enclosed.

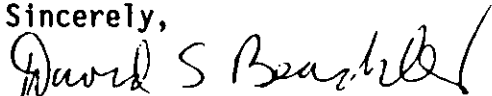
We would like to request that you issue an operating permit to allow the Bay County Facility to operate at a rate of 510 tpd MSW. We have talked to Mr. William Thomas of the Florida DER, Tallahassee office, concerning the request to operate the facility at the rated plant capacity, and are enclosing a copy of both reports for his information.

July 20, 1987

We will be sending the Certificate of Completion along with the appropriate fees to your office as soon as the Bay County officials sign these forms.

If you have any questions, or need additional information, please call me at (412)636-5806.

Sincerely,



David S. Beachler, Manager  
Environmental & Quality Engineering

0650MM-087E:23

cc: William Thomas, Florida DER  
Nevin J. Zimmerman, Atty., Bay County Commissioners  
John Zebroski, W/RESD

EMISSION FACTORS FOR THE BAY COUNTY  
RESOURCE RECOVERY FACILITY

Introduction

Emission testing was conducted at the Bay County Resource Recovery Facility in Panama City Florida during April thru June, 1987. The purpose of the tests was to determine the efficiency of the electrostatic precipitator to demonstrate compliance of the facility with the permit conditions as stated by the Florida DER, and to determine the concentration of various gaseous constituents in the flue gas, namely SO<sub>2</sub>, NO<sub>x</sub> and HCl. Acceptance Testing was also conducted to confirm the plant capacity electrical generation and the combustible content of the residue produced while operating the plant at the maximum rated capacity -- 510 TPD municipal solid waste that has a heating value of 4500 Btu/lb.

The emission compliance test report that documents compliance with the Florida DER requirements is submitted as a separate report. This report contains the stack gas concentration levels of SO<sub>2</sub>, NO<sub>x</sub>, and HCl and the corresponding predicted emission factors for operating the Bay County Facility at a rate of 510 TPD MSW, based on a waste heating value of 4500 Btu/lb.

Test Results

SO<sub>2</sub> Concentration

SO<sub>2</sub> concentration was determined using US EPA Reference Method 8. A gas sample was extracted from the stack and pulled through a sampling train consisting of a heated filter and a series of impingers. The first impinger contained a solution of 80% isopropyl alcohol (IPA) used to absorb sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>). The second and third impingers contained 3% H<sub>2</sub>O<sub>2</sub> used to collect sulfur dioxide (SO<sub>2</sub>). The impingers were analyzed by titrating with methyl orange to determine the SO<sub>2</sub> concentration levels as shown in Table 1.

The average SO<sub>2</sub> concentration was 187 ppm<sub>WV</sub>.

TABLE 1  
SO<sub>2</sub> CONCENTRATIONS

Date	Combustor/Boiler (unit)	SO <sub>2</sub> Concentration (ppm <sub>dV</sub> )
4/27	1	113
4/27	1	90
4/29	1	213
4/29	1	172
4/30	1	348
		Ave. 187

#### NOx Concentration

NOx emissions were determined by using a continuous emission monitor (CEM) and by a manual wet test method -- EPA Reference Method 7. Method 7 was used to verify the CEM emission data. In Method 7, a gas sample is extracted from the stack gas into an evacuated flask. The sample is then analyzed in the laboratory using a spectrophotometer. A Theta Sensor CEM was used to measure NOx emissions by using the chemiluminescence principle. NOx emission data was recorded onto a six-pen YEW strip chart recorder.

Table 2 contains the NOx emissions measured simultaneously by both EPA Method 7 and the CEM on the stack of Unit 2. The average NOx concentrations were 148 ppm<sub>dV</sub> using Method 7 and 171 ppm<sub>dV</sub> using the CEM.

Table 2  
 NOx Emission Tests Conducted on 5/20 and 5/21  
 on Combustor/Boiler Train #2

<u>Date</u>	<u>Time</u>	EPA Method 7	CEM
		NOx	NOx
		<u>ppm</u> <u>dv</u>	<u>ppm</u> <u>dv</u>
5/20	22252	166.1	165
5/20	2254	185.6	165
5/20	2352	136.1	155
5/20	2353	191.6	155
5/21	0052	92.5	155
5/21	0053	121.9	155
5/21	0152	84.8	140
5/21	0153	148.0	140
5/21	0249	166.6	155
5/21	0251	179.5	155
5/21	0351	191.3	210
5/21	0352	128.5	210
5/21	0451	139.6	220
5/21	0452	141.0	220
	Ave.	148	171

HCl Concentration

HCl concentrations were determined using NIOSH Method 112B. Flue gas was extracted from the stack using an EPA Method 5 sampling train. The first impinger contains a 0.1 N solution of NaOH that absorbs HCl from the gas sample. The impinger solution is then titrated with mercuric nitrate to determine the HCl concentration. Table 3 contains the results of the tests used to measure HCl emissions.



Table 3  
HCl Concentrations

Date	Combustor/Boiler (unit)	HCl Concentration (ppm <sub>dv</sub> )
4/22	1	591
4/22	1	432
4/23	2	857
4/23	2	857
4/23	2	703
4/26	1	820
4/26	1	422
4/26	1	677
	Ave.	648

CO Concentration

Carbon monoxide emissions were measured by an in-situ Westinghouse NDIR CO analyzer. The monitor is located in the ductwork between the ESP outlet and ID fan. The emissions measured by the instrument were generally below 100 ppm<sub>wv</sub> except for brief excursions that lasted from a few minutes to as long as 10 minutes in duration. Figures 1 through 7 show the printout for CO emissions during the emission acceptance test period conducted in early June 1987.

Emission Factors

The proposed emission factors for various pollutants, contained in Table 4, were submitted to the Florida DER for the facility's permit application in 1984. Emission factors were developed for particulate matter, CO, NO<sub>x</sub>, SO<sub>2</sub>, HC and lead based on burning 300 TPD of MSW and 178 TPD of wood wastes.

Emission factors for burning 510 TPD of MSW with a heating value of 4500 Btu/lb are given in Table 5. These emission factors are based, in part, on the recent test results at Bay County, as well as previous emission data and/or emission factors proposed at other waste-to-energy facilities.

As can be seen from the last column in Tables 4 and 5, the total predicted annual emissions are very similar. Projected emission levels for CO and HC are lower, while SO<sub>2</sub> and NO<sub>x</sub> are slightly higher. There were no emission projections for HCl because this pollutant is not a PSD pollutant.

TABLE 4  
EMISSION FACTORS<sup>1</sup> FOR THE BAY COUNTY  
RESOURCE RECOVERY FACILITY BURNING 300 TPD MSW  
AND 178 TPD WOOD WASTES

	Per train lb/hr	Per train lb/ton	Total ton/year
Particulate Matter (0.03 gr/dscf)	5.72	* 0.54	50
CO	115.4	10.86	1010
NO <sub>x</sub>	24.5	2.3	214
SO <sub>2</sub>	22.2	2.09	192
Lead	0.072	0.003	0.3
HC	18.0	0.85	78

<sup>1</sup> Based on the PSD Permit Application submitted in 1984.

TABLE 5  
 EMISSION FACTORS<sup>1</sup> FOR THE BAY COUNTY  
 FACILITY BURNING 510 TPD OF MSW THAT HAS A  
 HEATING VALUE OF 4500 BUT/LB (365 DAYS PER YEAR)

Pollutant	Emission Test Results 4/87-5/87 Per Train	Typical Emission Factors Concentration		6 lb/10 Btu	lb/ton	Total TPY
		Corrected to 12% CO 2				
Particulate Matter	<0.03 gr/dscf	0.03 gr/dscf		0.06	0.54	50
CO	<400 ppm <sub>wv</sub>	<400 ppm (max 4 day ave)		0.398	3.58	666
NOx	148 ppm <sub>dv</sub> - 171 ppm <sub>dv</sub>	150 ppm (annual)		0.267	2.41	223
SO <sub>2</sub>	187 ppm <sub>dv</sub>	150 ppm (annual)		0.373	3.37	314
HC	---	35 ppm (annual)		0.0218	0.196	18.24
HCl	648 ppm <sub>dv</sub>	500 ppm (annual)		0.648	5.83	542

<sup>1</sup>Based on emission test data from Bay County and other facilities.

Figure 1

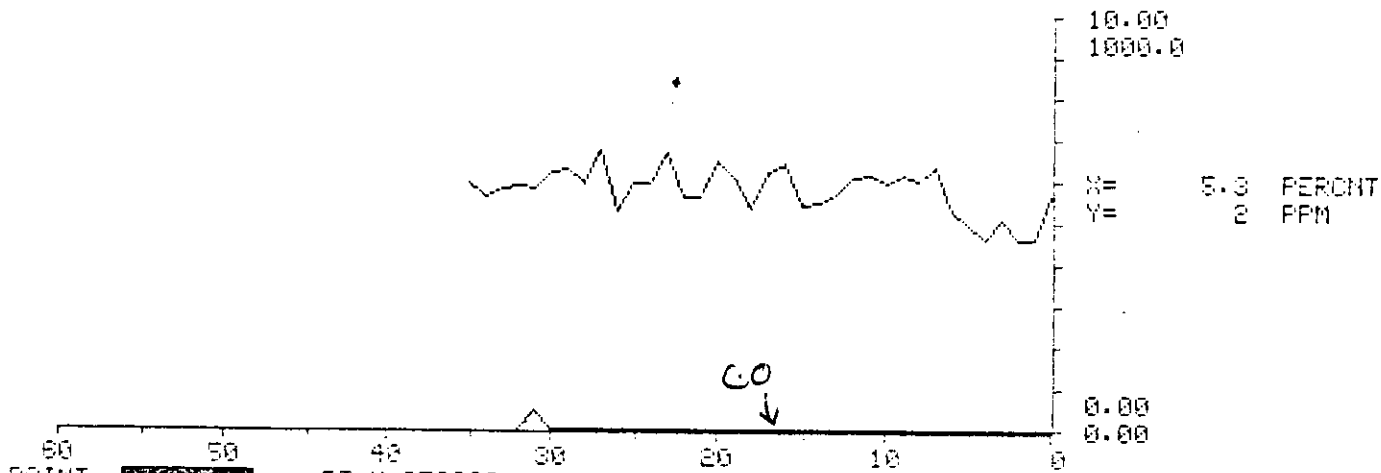
DIAGRAM NUMBER: 1252      VERSION: 0  
DATE: 06/01/87      TIME: 20:10:17

01 JUN 87  
X: AT236A  
Y: AT237A

60 MINUTE TREND

20:10:12

OXYGEN ANALYZER BLR. 1  
CO ANALYZER BLR. 1



POINT **AT237A**  
**P1** 10 MIN TREND  
**P2** 60 MIN TREND  
**COPY-ING-PROGRESS**

PT X AT236A      PT Y AT237A  
**P3** 10/60 MIN TREND      **P5** DEFINE PT X  
**P4** W/Y PLOT      **P6** DEFINE PT Y  
Press **ENTER** to modify trend history menu.

Figure 2.

DIAGRAM NUMBER: 1252    VERSION: 0

DATE: 06/03/87    TIME: 10:06:46

3/JUN/87

60 MINUTE TREND

10:06:46

X: AT236B CO ANALYZER BLR. 2  
Y: AT236B OXYGEN ANALYZER BLR. 2

1000.0  
18.00

X= 18 PPM  
Y= 6.5 PERCENT

0.00  
0.00

60    50    40    30    20    10

POINT    PT Y AT236B    PT Y AT236B

**F1** 15 MIN TREND    **F2** 30 MIN TREND    **F3** DESIGN PT X  
**F4** 60 MIN TREND    **F4** MAX POINT    **F3** DESIGN PT Y

**DISP** **ENTER** **ENTER** **ENTER**

Press **ENTER** to modify trend options menu.

Figure 3

DIAGRAM NUMBER: 1252      VERSION: 0

DATE: 06/05/87      TIME: 12:41:10

06/05/87

60 MINUTE TREND

12:41:07

X: AT236A    OXYGEN ANALYZER BLR. 1  
Y: AT237A    CO ANALYZER BLR. 1

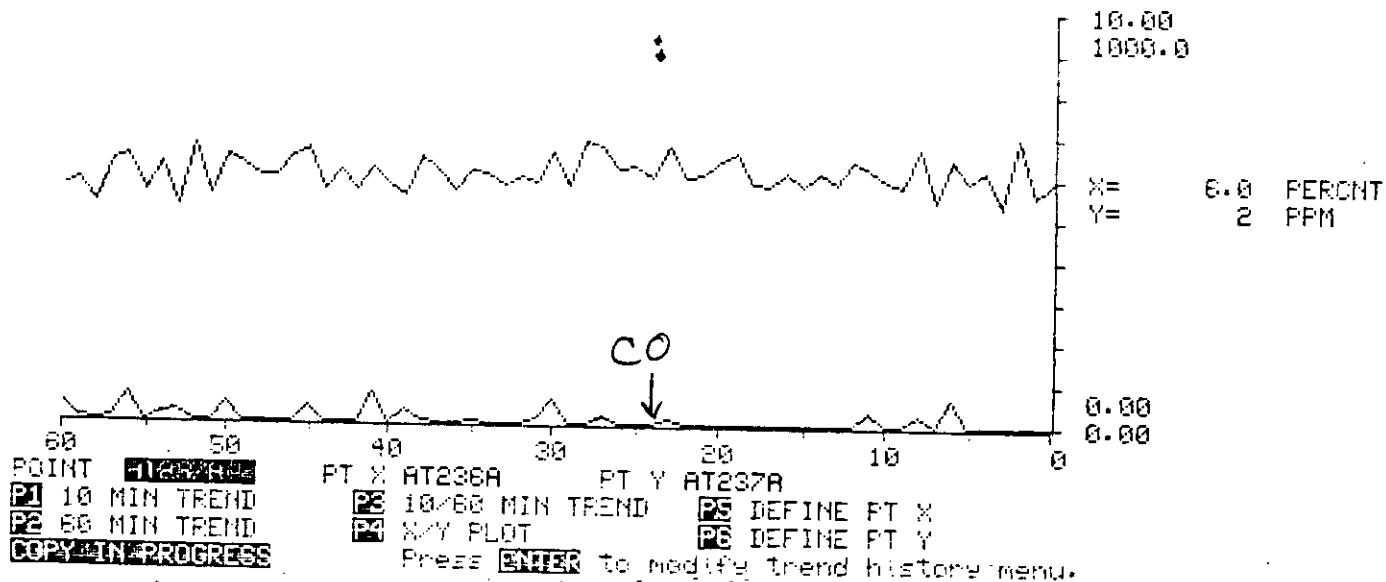


Figure 4

Compliance Unit #1  
Run 11

Air = 1150

DIAGRAM NUMBER: 1152      VERSION: 0  
DATE: 06/02 87      TIME: 14:30:43

05 JUN 87      60 MINUTE TREND      19:00:41  
X: AT236A    OXYGEN ANALYZER BLR. 1  
Y: AT237A    CO ANALYZER BLR. 1

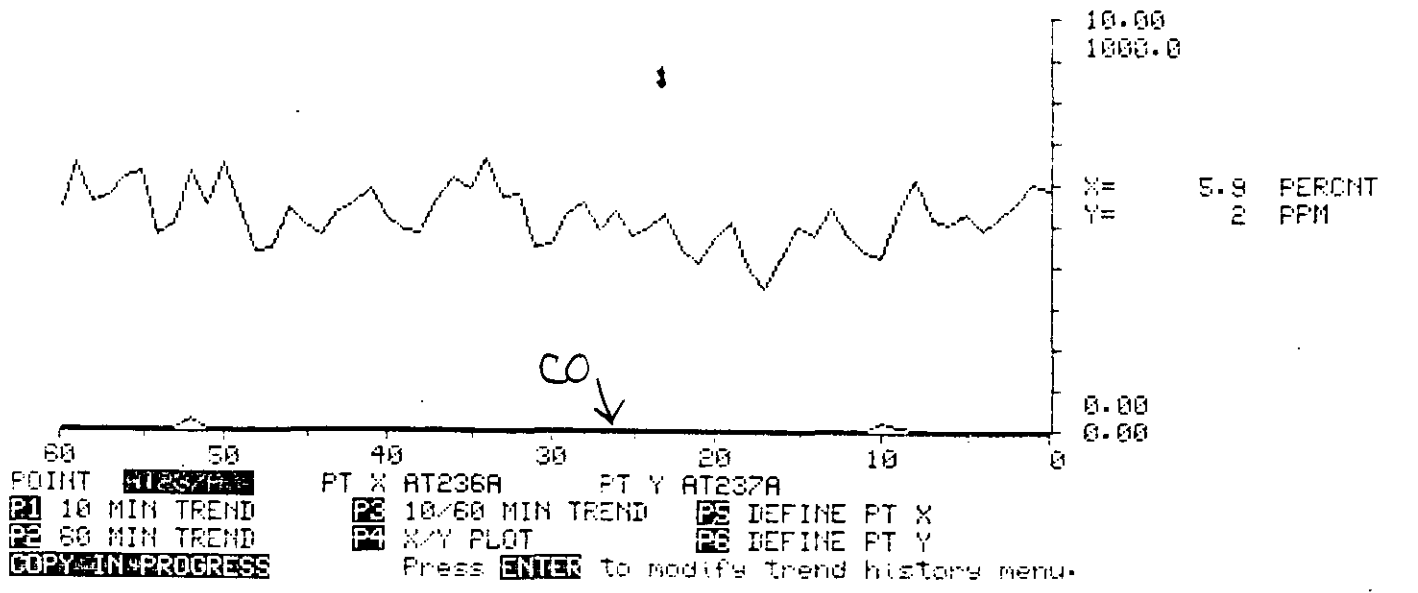
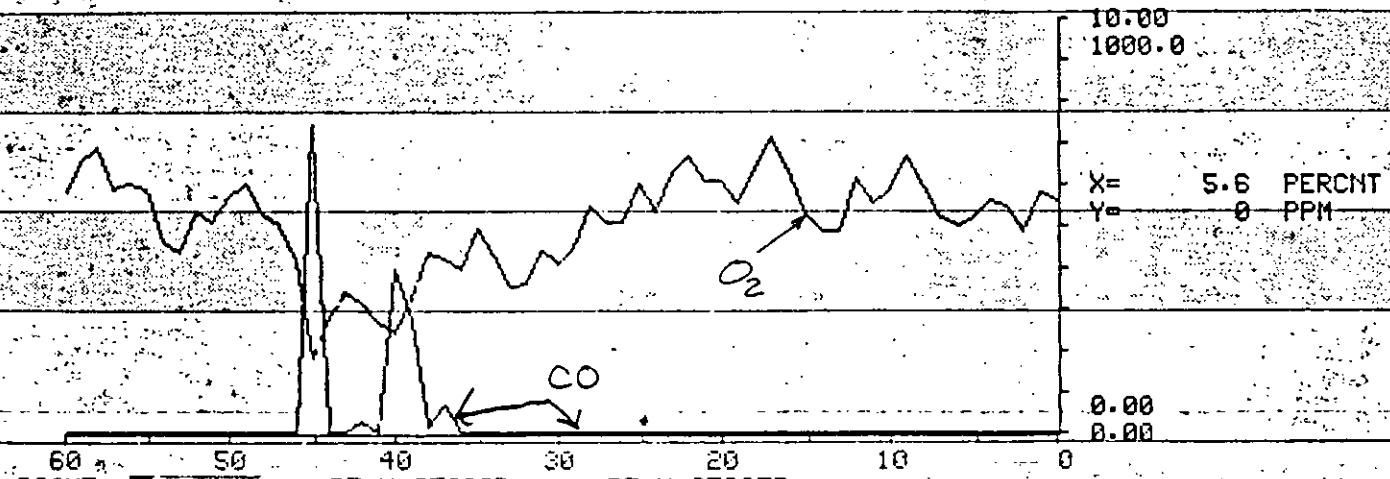


Figure 5

DIAGRAM NUMBER: 1252    VERSION: 0  
DATE: 06/01/87    TIME: 10:31:19

1 JUN 87    60 MINUTE TREND    10:31:19  
X: AT236B    OXYGEN ANALYZER BLR. 2  
Y: AT237B    CO ANALYZER BLR. 2



POINT        PT X AT236B    PT Y AT237B  
P1 10 MIN TREND    P3 10-60 MIN TREND    P5 DEFINE PT X  
P2 60 MIN TREND    P4 X/Y PLOT    P6 DEFINE PT Y  
COPY IN PROGRESS    Press **ENTER** to modify trend history menu.



Figure 6

DIAGRAM NUMBER: 1252      VERSION: 0

DATE: 06/04/87      TIME: 10:49:51

1 JUN 87

50 MINUTE TREND

10:49:44

X: AT237B CO ANALYZER BLR. 2  
Y: AT236B OXYGEN ANALYZER BLR. 2

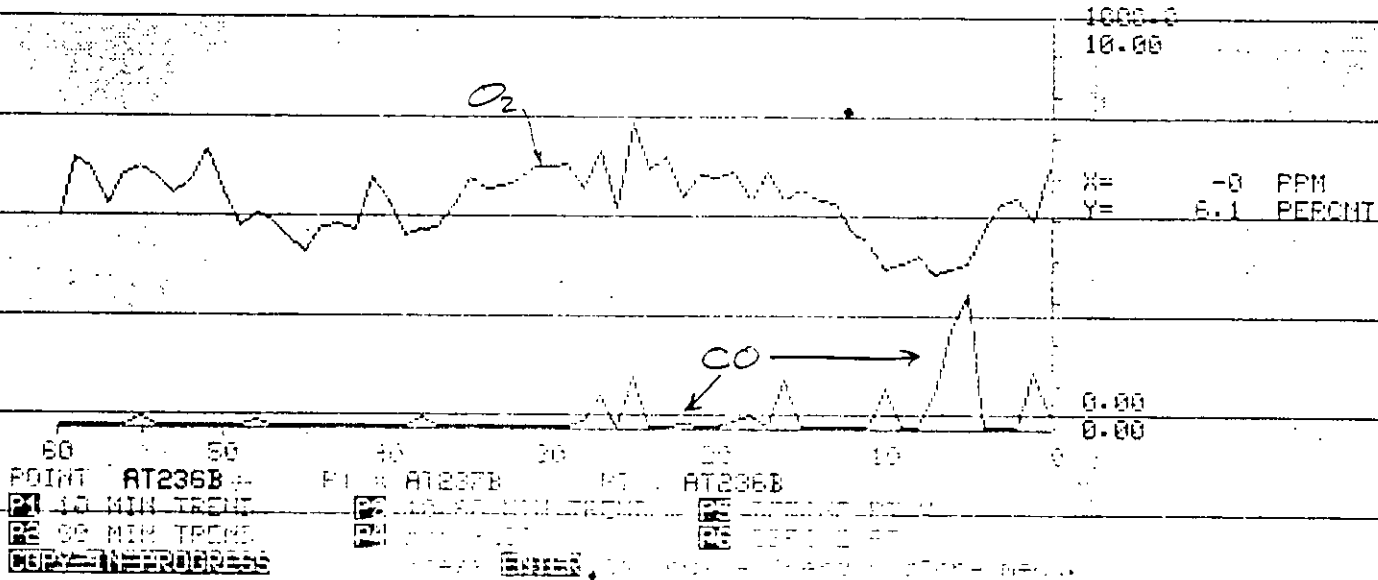


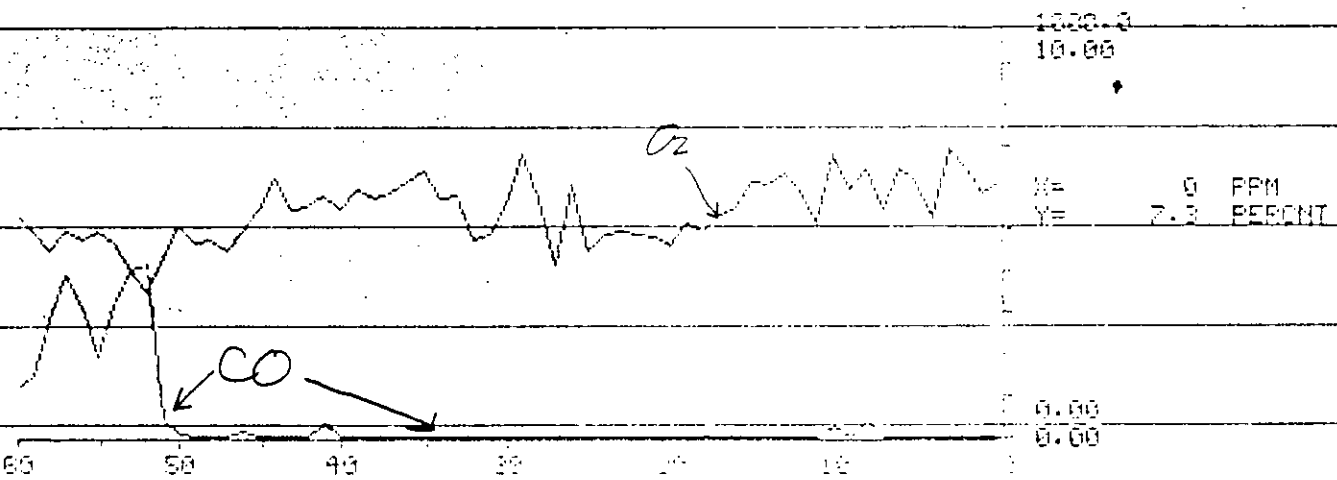
Figure 7

DIAGRAM NUMBER: 1252    VERSION: 0

DATE: 06/04/87    TIME: 14:14:48

4 JUN 87    60 MINUTE TREND    14:14:48

X: AT237B CO ANALYZER BLR. 2  
Y: AT236B OXYGEN ANALYZER BLR. 2



10.00  
10.00  
X= 0 PPM  
Y= 2.3 PERCENT

POINT AT236B    POINT AT237B    POINT AT236B  
 P1 10 MIN TREND    P2 10 MIN TREND    P3 DEFINE DATA  
 P4 60 MIN TREND    P5 60 MIN TREND    P6 DEFINE DATA  
 P7 60 MIN TREND    P8 60 MIN TREND    P9 DEFINE DATA  
 Press ENTER to quit

## Conclusion

Based on information given in this report, and the test results to confirm compliance with the Florida DER emission limits stated in Permit Numbers AC-03-84703 and AC-03-84-704, the Bay County Resource Recovery Facility requests that the Florida DER issue an operating permit to operate the Bay County facility at a maximum daily rate of 510 TPD of MSW (that has a heating value of 4500 Btu/lb).